Declassified in Part - Sanitized Copy Approved for Release 2013/03/11: CIA-RDP80-00809A000500770017-6 SECRET REPORT CENTRAL INTELLIGENCE AGENCY 50X1-HUM INFORMATION REPORT COUNTRY : GERMANY/USSR DATE DISTR. 7 JOYN Additional Data on 50X1-HUM NO. OF PAGES 4 SUBJECT Lisskhimstroi Plant (Severo-Donetsk) NO. OF ENCLS. 50X1-HUM SUPPLEMENT TO REPORT NO. THIS IS UNEVALUATED INFORMATION 50X1-HUM USSR 1. 2. Quantitative production of chemicals at this plant at time of observation. Estimated 1952 production of these chemicals. 3. only the ammonia oxidation plant was in operation and its production was probably SECRET SECURETY INFORMATION

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	quite negligible. The armonia was shipped in from outside the plant The production of ammonia had not begun because the power plant was not yet	50X1-HUM
	in operation. According to plan, the power plant was to start aperations in fall 1951. he indication of the planned production for the year 1952.	50X1-HUM
4.	Source of hydrogen and nitrogen for ammonia synthesis.	
	Both hydrogen and nitrogen were produced at the plant itself. Nitrogen was obtained from liquid air and producer gas synthesis, and hydrogen was obtained from water gas synthesis.	
5.	Information on plant equipment; number, size and capacity of compressors, ammonia and nitric acid converters, absorbers, etc.	
	The equipment used at Lisskhimstroi was equipment which had been dismantled from Leuna. The type of steam boilers which were to be installed at Lisskhimstroi had a capacity of 50 tons of steam per hour,	
	The compressors were standard Leuna compressors with a capacity of 1900 cbm per hour for 100 thrusts per	
	Two large absorbers were visible from outside of the plant, but I do not know what their capacity was.	50X1-HUM
6.	Information on processes, pressures, catalysts, etc. A process flow diagram would be helpful.	
	Processes, pressures and catalysts, similar to those used at Leuna, were probably planned for Lisskhimstroi. The presence of Leuna scientists, Leuna equipment and Leuna literature suggests that Leuna methods were to be followed.	
7.	Was any of the ammonium nitrate production being used for explosives Any information on destination of shipments of ammonia, strong nitric acid, or ammonium nitrate from this plant.	50X1-HUM
	The close proximity of an explosives factory at Yushnaya Grupa (Plant No 20) Yushnaya Grupa is about 8 km from the Lisskhimstroi plant/ where, Hexogen was to be produced, led to the following conjectures regarding ammonium nitrate production: As the production of ammonia was definitely planned at Lisskhimstroi, and since the plant for the production of highly concentrated nitric acid dismantled from Leuna was probably taken there, and since the production of formaldehyde was among the assignments given to the German scientists at Lisskhimstroi, it was assumed that the plant at Lisskhimstroi was shipping some of its raw materials, possibly ammonium nitrate, to nearby Yushnaya Grupa, where	50X1-HUM

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8.	Was there actual or planned production of methanol at this plant If so, what was the quantity actually produced or planned	50X1-HUM
	The Soviets disseminated questionnaires requesting that information regarding chemical processes used at Leuna, including the manufacture of methanol. From this, the production of methanol was contemplated at Lisskhimstroi.	
9.	Any information concerning the source of electric power and raw materials or intermediates for chemical production, and the number of employees will be very helpful.	
	Electric power was supplied from the Don Soda plant at Pereyesdnaya begins full scale production, will be supplied by the Lisskhimstroi's own power plant. The only raw material shipped into the plant was ammonia which had come from the coke plant at Golovka. Between 8-10 thousand people were employed at	50X1-HUM
	the plant; most of these people, however, were engaged in the actual construction of the plant, and not in its operation.	50X1-HUM
10.	An oriented sketch showing the layout of chemical production buildings of this plant would be extremely valuable.	
11.	research work on production of adipic acid. Was this research in connection with pro- duction or planned production of this chemical at Liss- khimstroi? Was this research in connection with actual	
	or planned production of polyamides at Lisskhimstroi	50X1-HUM
	production of adipic acid was intended at Lisskhimstroi. Rather, the Leuna plant for the production of adipic acid had been shipped to Dzerzhinsk where Drs Striegler and Meier were working on plastics and had a pilot plant for the production of caprolactam. (Caprolactam is used in the production of the polyamide, Perlon.)	50X1-HUM
.2.	Is a urea plant installed at Lisskhimstroi Is commercial production of urea planned Is production of Oppanol planned for Lisskhimstroi	50X1-HUM
	Although no urea pilot plant was operating at Lisskhim- stroi during German scientists were requested to design a urea pilot plant.	
	of urea is planned at Lisskhimstroi. All literature which was removed from Heydebrek on the production of urea, was kept at Lisskhimstroi. the production of Oppanol is planned at Lisskhimstroi because again it seems more logical that this plastic material be produced at Dzerzhinsk.	50X1-HUM

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